

TETHERED AERIAL OBSERVATION SYSTEM

AtlasTETHER

70 M UP. 100 MBIT LINK. NO TIME LIMIT.

A tethered station that keeps an AtlasPRO at up to 70 m for as long as mains power holds, sending its payload video down the cable rather than over the air.

Power and data run down one 3 mm cable, so the flight has no battery to change and the video has no airtime to share. The case draws up to 1000 W from a wall socket and hands the operator an RJ45 socket at 0.55 ms. If ground power fails, a 90-second reserve lands the aircraft on its own.


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70 m

Max altitude

Indefinite

Endurance on mains

100 Mbit/s

Data link

0.55 ms

Latency

350 g

Payload

ENDURANCE

Up while the power is on

Mains power replaces the battery, so the aircraft holds station at up to 70 m for as long as the job runs. If ground power drops, a 90-second reserve on the air module lands it automatically.



GROUND STATION

One case, 1000 watts

A 20.1 kg ABS case holds the spool, the drive and the power supply, runs off a 220 V socket and gives the operator an RJ45 socket.



TETHER CABLE

70 m of 3 mm line

Seventy metres of 3 mm cable at 10 g per metre, rated to 150 daN and paid out under 1 to 6 N of adjustable tension.



PAYLOADS

EO, IR or both at once

The AtlasPRO underneath takes KALOS I20 and ARGUS M20 for daylight, VISOR NX and VISOR FF for thermal, or AtlasORTUS to carry both — up to 350 g.



SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Tethered aerial observation system

TETHER STATION

Dimensions (w × l × h)	627 × 475 × 292 mm
Weight	20.1 kg
Enclosure	ABS plastic
Ingress protection	IP41 (designed as), limited weather protection

POWER

Input voltage	220 V AC (±10 %), 50 Hz, pure sine wave
Max continuous power	Up to 1000 W
Mains cable and plug	Type F plug, 1.5 m
Endurance on mains power	Indefinite

TETHER CABLE

Max altitude (cable length)	70 m
Cable weight	10 g/m
Tensile strength	150 daN
Diameter	3 mm
Cable torque	1 – 6 N, adjustable

AIR MODULE

Dimensions (w × l × h)	82 × 180 × 41 mm
Weight	390 g
Cooling	Active
Voltage	12 V DC
Emergency battery	90 s, automated landing
Indication	Ground power fault, over/under-current

DATA LINK

Data channel	Ethernet over power line
Bandwidth	100 Mbit/s
Latency	0.55 ms
Ground station socket	RJ45

SOFTWARE

Plug and play	AtlasAPP automated tether mode
Auto safety	Limited vertical speed and distance
Telemetry	Low battery warning, ground power status



AIRCRAFT (ATLASPRO)

Dimensions, folded (w × d × h)	417 × 323.5 × 115.5 mm
Dimensions, unfolded (w × d × h)	445 × 557.5 × 185.5 mm
Weight, bare	1050 g
Max take-off weight	1990 g
Max payload	350 g
Ingress protection	IP54 Certified (IEC 60529)

OPERATIONAL ENVIRONMENT

Operating temperature, aircraft	–20 °C to +55 °C (–30 °C to +50 °C optional)
Operating temperature, station	–15 °C to +40 °C
Relative humidity	5–95 %, non-condensing

IN FLIGHT

Wind speed resistance	15.5 m/s (55.8 km/h)
Noise	56 dB(A) at 15 m
Propellers	Standard quiet props, 33.2 cm, 15.8 g

NAVIGATION AND SENSING

Positioning	GPS + GLONASS + Galileo
No-GPS positioning	Optical flow dead reckoning
Hovering accuracy (GPS)	0.5 – 2.5 m
Downward rangefinder	ToF LIDAR
Obstacle sensing range	20 m

RADIO LINK

Standard (civilian) frequency	2.4 – 2.4835 GHz
Full extended frequency	2.2 – 2.7 GHz
RF output power	30 dBm
Antenna gain	3 dBi

PAYLOADS

Payloads, EO (RGB)	KALOS 120, ARGUS M20
Payloads, IR	VISOR NX, VISOR FF
Payloads, dual	AtlasORTUS

See AtlasTETHER fly

Book a live demonstration or talk to our team about pricing and availability.

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